Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard,
29CFR 1910. 1200. Standard must be consulted for specific requirements.

SECTION 1 -

Manufacturer's Name	AMEREX CORPORATION

Address	P. O. Box 81	Emergency Telephone No.	205/655-3271
City, State, and ZIP	TRUSSVILLE, AL 35173-0081	Other Information Calls	205/655-3271
Signature of Person Responsible for Preparation (Optional) D. H. Ellison		Date Prepared	November 1985

SECTION 2 – HAZARDOUS INGREDIENTS/IDENTITY

Hazardous Component(s) (chemical & common name(s))	OSHA PEL	ACGIH TLV	Other Exposure Limits	% (optional)	CAS NO.
Bromochlorodifluoromethane	Unknown	Not Listed	1000 ppm on 8 HR TWA	100	353-59-3

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point 26°F	Specific Gravity (H₂O=1) 1.83(liquid)	Vapor Pressure (mm Hg) at 68°F 1770
Vapor Density (Air = 1) 5.8 at 68°F		
Solubility in Water Insoluble	Reactivity in Water N.A.	
Appearance and Odor Colorless gas and liquid with very faint, sweet odor.	Melting Point N.A.	

Specific Gravity $(H_2O=1)$ 1.83(liquid)

SECTION 4 – FIRE & EXPLOSION DATA

Flash Point N.A. F. C.	Method Used N.A.	Flammable Limits in Air % by Volume	LEL Lower N.A.	UEL Upper N.A.
Auto-Ignition Temperature N.A.	Extinguisher Media N.A.			

Special Fire Fighting Procedures   At flame temperatures, Halon 1211 may release hydrogen halides and halogens in trace amounts.

Unusual Fire and Explosion Hazards   When BCF is discharged into a fire, it decomposes above 900°F, releasing bromide ions. Halongen acids and small amounts of carbonyl halides are also formed. These by-products, although harmful if inhaled, are easily detected. Only a few PPM create an unpleasant, acrid odor which serves as a warning to the user. After the extinguisher is discharged the area should be vacated until ventilation clears the atmosphere.

SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)

Stability	Unstable		Conditions	
	Stable	X	to Avoid	Stable under normal conditions.

Incompatability
(Materials to Avoid)   Active metals such as powdered alumina and magnesium and fires of metal hydrides.

Hazardous
Decomposition Products   Halon begins decomposing at temperatures above 900°F to give free halogens, halogen acids, and small amounts of carbonyl halides.

Hazardous   May Occur ☐   Conditions
Polymerization   Will Not Occur X   to Avoid   None

SECTION 6 - HEALTH HAZARDS

1. Acute

     Unknown

2. Chronic Prolonged exposure can cause dizziness, headache, nausea, impaired coordination, progressing to unconsciousness.

Signs and
Symptoms of Exposure   As above.

Medical Conditions Generally
Aggravated by Exposure   In susceptible individuals, cardiac sensitization to circulating epinephrine compounds

can result in sudden, fatal heart arrhythmias.

Chemical Listed as Carcinogen or Potential Carcinogen	National Toxicology Program	Yes ☐ No ☒	I.A.R.C. Monographs	Yes ☐ No ☒	OSHA	Yes ☐ No ☒

Emergency and
First Aid Procedures   See below.

ROUTES OF ENTRY	1. Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
	2. Eyes	The liquid form of this material can produce chilling sensation and discomfort. Flush with copious amounts of water for at least 15 minutes.
	3. Skin	Evaporation of liquid from the skin can produce chilling sensations. Skin injury does not result. Wash skin with soap and water.
	4. Ingestion	Do not induce vomiting. Give 1 or 2 glasses of warm water to drink and get medical attention.

SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken
in Handling and Storage   Store in cool area with good ventilation. Enforce "NO SMOKING" rules in area of use.

Other
Precautions   None

Steps to be Taken in Case
Material is Released or Spilled   Ventilate spill area and recover any liquid.

Waste Disposal
Methods (Consult federal, state, and local regulations)   Not applicable.

SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

Respiratory Protection   Not normally needed. If needed, use MSHA/NIOSH approved respirator for organic vapors.
(Specify Type)

Ventilation	Local Exhaust	Mechanical (General)	Special	Other
Yes	Yes	Yes	No	No

Protective
Gloves   Impervious for liquid exposure.

Eye
Protection   Safety glasses

Other Protective
Clothing or Equipment   Eye wash station and safety shower in work area when working with liquified product.

Work/Hygienic Practices
     N.A.